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SEQUENCE LISTING

TECH CENTER 1600/2900

<110> VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR BIOTECHNOL

<120> Peptides and nucleic acids derived from Eisenia foetida and the use thereof

<130> 2676-4432US

<140> US 09/596101

<141> 2000-06-16

<150> PCT/EP98/08169

<151> 1998-12-16

<150> 97203974.7

<151> 1997-12-17

<160> 3

<170> PatentIn version 3.0

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-15

-10

-5

gcc ttc acc gac tgg gat caa tat cac atc gtc tgg cag gac gaa ttc

96

Ala Phe Thr Asp Trp Asp Gln Tyr His Ile Val Trp Gln Asp Glu Phe

-1 1

5

10

15

gat tac ttt gat ggc gcg aag tgg caa cat gag gtc aca gca act ggc

144

Asp Tyr Phe Asp Gly Ala Lys Trp Gln His Glu Val Thr Ala Thr Gly

20

25

30

gga ggg aac agc gaa ttc caa ctg tac aca cag gat ggg gcc aac agc

192

Gly Gly Asn Ser Glu Phe Gln Leu Tyr Thr Gln Asp Gly Ala Asn Ser

35

40

45

ttc gtt cga gat gga aag ctt ttc att aag ccg acg ttg ctg gct gac

240

Phe Val Arg Asp Gly Lys Leu Phe Ile Lys Pro Thr Leu Leu Ala Asp

50

55

60

aac atc aac cca cag acg ggt gcg cca ttt gga acc gat ttc atg tac

288

Asn Ile Asn Pro Gln Thr Gly Ala Pro Phe Gly Thr Asp Phe Met Tyr

65

70

75

aat gga gtt cta gat gtc tgg gct atg tac ggg gcc tgc acg aat acg

336

Asn Gly Val Leu Asp Val Trp Ala Met Tyr Gly Ala Cys Thr Asn Thr

80 85 90 95
 gac aac aac gga tgc tac agg acg gga gcc gct ggc gac att cca ccg
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 Asp Asn Asn Gly Cys Tyr Arg Thr Gly Ala Ala Gly Asp Ile Pro Pro
 100 105 110
 gcc atg tcg gca cga gtt cga acc ttc cag aaa tac agc ttc acc cac
 432
 Ala Met Ser Ala Arg Val Arg Thr Phe Gln Lys Tyr Ser Phe Thr His
 115 120 125
 gga cgc gtt gtc gtt cac gcc aag atg ccc gtc gga gac tgg ctc tgg
 480
 Gly Arg Val Val Val His Ala Lys Met Pro Val Gly Asp Trp Leu Trp
 130 135 140
 cca gcc att tgg atg ttg ccg gag gat tgg gtc tat ggc gga tgg cct
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 Pro Ala Ile Trp Met Leu Pro Glu Asp Trp Val Tyr Gly Gly Trp Pro
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 Arg Ser Gly Glu Ile Asp Ile Ile Glu Thr Ile Gly Asn Arg Asp Phe
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 aag aac act ggt gga gag ttc ctt gga att cag aag atg gga tca acg
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 Lys Asn Thr Gly Gly Glu Phe Leu Gly Ile Gln Lys Met Gly Ser Thr
 180 185 190
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 Met His Trp Gly Pro Gly Trp Asp Asp Asn Arg Tyr Trp Leu Thr Ser

195

200

205

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720

Leu Pro Lys His Ser Asp Asp Trp Asn Tyr Gly Asp Asn Phe His Thr

210

215

220

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768

Phe Trp Phe Asp Trp Ser Pro Asn Gly Leu Arg Phe Phe Val Asp Asp

225

230

235

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816

Glu Asn Gln Ala Leu Leu Asp Val Pro Tyr Pro Leu Ile Asp Ala Asn

240

245

250

255

cca tgg tgg gtg gat ttc tgg gag tgg gga aag ccc tgg ctt cct caa

864

Pro Trp Trp Val Asp Phe Trp Glu Trp Gly Lys Pro Trp Leu Pro Gln

260

265

270

tac gaa aat gac aat cca tgg gct gga gga acg aac ctg gct ccc ttc

912

Tyr Glu Asn Asp Asn Pro Trp Ala Gly Gly Thr Asn Leu Ala Pro Phe

275

280

285

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960

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290

295

300


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1008

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 305 310 315

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Asn Ile Asn Pro Gln Thr Gly Ala Pro Phe Gly Thr Asp Phe Met Tyr
65 70 75

Asn Gly Val Leu Asp Val Trp Ala Met Tyr Gly Ala Cys Thr Asn Thr
80 85 90 95

Asp Asn Asn Gly Cys Tyr Arg Thr Gly Ala Ala Gly Asp Ile Pro Pro
100 105 110

Ala Met Ser Ala Arg Val Arg Thr Phe Gln Lys Tyr Ser Phe Thr His
115 120 125

Gly Arg Val Val Val His Ala Lys Met Pro Val Gly Asp Trp Leu Trp
130 135 140

Pro Ala Ile Trp Met Leu Pro Glu Asp Trp Val Tyr Gly Gly Trp Pro
145 150 155

Arg Ser Gly Glu Ile Asp Ile Ile Glu Thr Ile Gly Asn Arg Asp Phe
160 165 170 175

Lys Asn Thr Gly Gly Glu Phe Leu Gly Ile Gln Lys Met Gly Ser Thr
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Met His Trp Gly Pro Gly Trp Asp Asp Asn Arg Tyr Trp Leu Thr Ser
195 200 205

Leu Pro Lys His Ser Asp Asp Trp Asn Tyr Gly Asp Asn Phe His Thr
210 215 220

Phe Trp Phe Asp Trp Ser Pro Asn Gly Leu Arg Phe Phe Val Asp Asp
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Glu Asn Gln Ala Leu Leu Asp Val Pro Tyr Pro Leu Ile Asp Ala Asn
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Pro Trp Trp Val Asp Phe Trp Glu Trp Gly Lys Pro Trp Leu Pro Gln
 260 265 270

Tyr Glu Asn Asp Asn Pro Trp Ala Gly Gly Thr Asn Leu Ala Pro Phe
 275 280 285

Asp Gln Asn Phe His Phe Ile Leu Asn Val Ala Val Gly Gly Thr Asn
 290 295 300

Gly Phe Ile Pro Asp Gly Cys Ile Asn Arg Gly Gly Asp Pro Ala Leu
 305 310 315

Gln Lys Pro Trp Ser Asn Gly Asp Trp Tyr Asn Asp Ala Met Arg Lys
 320 325 330 335

Phe Phe Asp Ala Arg Gly Asn Trp Lys Trp Thr Trp Asp Asp Glu Gly
 340 345 350

Asp Asn Asn Ala Met Gln Val Asp Tyr Ile Arg Val Tyr Lys Arg Asn
 355 360 365